

ABSTRACT OF THE DISCLOSURE

A robotic deburring tool having a housing. Mounted within the housing is a pneumatic motor that includes a backwall and a drive shaft. Secured to the terminal end of the drive shaft is a deburring tool. A pivot-bearing is mounted in the housing adjacent the backwall. A connector extends from the backwall of the pneumatic motor and connects to the pivot bearing, thereby permitting the pneumatic motor to freely articulate radially in any direction while preventing free rotation about the bearing's longitudinal axis. A compliance device extends around the pneumatic motor at a location between the backwall and the deburring tool secured to the drive shaft. The compliance device restricts the movement of the pneumatic motor while applying a compliance force to the pneumatic motor as the pneumatic motor moves with the pivot bearing.
